



PATENT

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BETH JOHNSON [Signature]

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

In re Application of: Uwe B. Sleytr et al.

Serial No.: 10/722,962

: Group Art Unit: Not yet assigned

Filed: November 26, 2003

: Examiner: Not yet assigned

For: **Method for Producing a Layer of  
Functional Molecules**

Commissioner of Patents and Trademarks

Sir:

**INFORMATION DISCLOSURE STATEMENT**

It is requested that the reference(s) listed on the attached Information Disclosure Citation  
Form PTO-1449 be considered by the Patent Examiner in connection with the above-identified  
application and be made of record therein.

Independent consideration and acknowledgment of the listed reference(s) are respectfully  
requested.

Respectfully Submitted,

Uwe B. Sleytr et al.

19 Feb 2004  
Date

[Signature]  
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**INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT**

APPLICANT: Uwe B. Sleytr et al.

Sheet 1 of 1

(Use several sheets if necessary)

FILING DATE: November 26, 2003

GROUP ART UNIT:

**U.S. PATENT DOCUMENTS**

EX. INIT <sup>7</sup>	Cite No. <sup>1</sup>	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number	Kind Code <sup>2</sup>			
	1.	4,752,395		Sleytr, et al.	06/21/1988	
	2.	4,886,604		Margit, et al.	12/12/1989	

**FOREIGN PATENT DOCUMENTS**

EX. INIT <sup>7</sup>	Cite No. <sup>1</sup>	Foreign Patent Document			Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T <sup>6</sup>
		Office <sup>3</sup>	Number <sup>4</sup>	Kind Code <sup>5</sup>				
	3.	EP	189,019	A	Margit, et al.	07/30/1986		
	4.	EP	463,859	A2	Johnson	01/02/1992		
	5.	WO	01/81425	A1	Mader, et al.	11/01/2001		

**OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS**

EX. INIT <sup>7</sup>	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume/issue number(s), publisher, city and/or country where published.	7 6
	6.	International Search Report mailed 23 September 2002	
	7.	SLEYTR, E. B. et al., "Crystalline Bacterial Cell Surface Layers (S-Layers): A Versatile Self-Assembly System" Chapter 5 from "Supramolecular Polymers", ed. A Ciferri, Marcel Dekker Inc., New York 2000 (ISBN 0-8247-0252-2)	
	8.	NEUBAUER, A. ET AL., "Pulsed-Laser Metal Contacting of Biosensors on the Basis of Crystalline Enzyme-Protein Layer Composites", Sensors and Actuators B40, 1997, pp 231-236	
	9.	PUM, D. ET AL., "Physico-Chemical Properties of Crystalline Nanoscale Enzyme-Protein-Metal Layer Composites in Biosensors", Ber. Bunsenges. Phys. Chem. 101, 1997, pp 1686-1689	
	10.	NEUBAUER, A. ET AL., Electrochemical Deposition Through and Electron Beam Deposition on S-Layer Templates: a Step Towards Calibration Standards in the 10-nm Range" PTB Reports P-34, 1998, pp 75-81	
	11.	SLEYTR, E. B. et al., "Two-Dimensional Protein Crystals (S-Layers): Fundamentals and Applications", Journal of Cellular Biochemistry, Bd. 561 Nr. 2, 1994, pp 171-176	
	12.	D. PUM et al, "The Application of Bacterial S-Layers in Molecular Nanotechnology", Trends in Biotechnology, Elsevier, Amsterdam, NL, Bd. 17, Nr. 1 January 1999 (1999-01), pp 8-12	
	13.	JAP, BK et al., "2D Crystallization: From Art to Science", Ultramicroscopy, Amsterdam, NL, Bd. 46, 1992, pp 45-84	
	14.	KUEPCUE, S. et al., "The Crystalline Cell Surface Layer From Thermoanaerobacter Thermohydrosulfuricus L111-69 As An Immobilization Matrix: Influence of the Morphological Properties and the Pore Size of the Matrix on the Loss of Activity of Covalently Bound Enzymes", Biotechnology and Applied Biochemistry, Academic Press, U>, Bd. 21, Nr. Part 3, June 1, 1995, pp 275-286	
	15.	SLEYTR, U. B. et al., "Application Potential of 2D Protein Crystals (S-Layers)", Annals of the New York Academy of Sciences, US, November 30, 1994, Bd. 745, pp 261-269	

Examiner  
SignatureDate  
Considered

\*EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>1</sup> Unique citation designation number. <sup>2</sup> See attached Kinds of U.S. Patent Documents. <sup>3</sup> Enter Office that issued document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard S.16 if possible. <sup>6</sup> Applicant is to place a check mark here if English language Translation is attached.